

Studying Growth

Solve. Simplify your answers.

Studies of humans over the past three centuries have led to some surprising discoveries about the average heights of people from different parts of the world.

1. A recent study revealed that the height of the average American male in 1750 was about $67\frac{7}{10}$ in. By 1800, the average height had changed to about $68\frac{1}{10}$ in. By how much did the average American male height increase? _____
2. The height of the average British male in 1750 was about $64\frac{19}{20}$ in. How much less was this than the height of the average American male whose average height was about $67\frac{7}{10}$ in. in 1750? _____
3. In 1850, the average height of a male from France was about $64\frac{3}{20}$ in. The average male from Norway in 1850 was about $1\frac{1}{5}$ in. taller than this. How tall was the average Norwegian male in 1850? _____
4. Between 1750 and 1950, the average height of a man from Norway increased by about $5\frac{1}{6}$ in. If the height of an average Norwegian male in 1750 was $64\frac{19}{20}$ in., what was the average height of a Norwegian male in 1950? (Hint: the least common multiple of 6 and 20 is 60.) _____
5. In 1750, the average Austrian male's height was about $65\frac{7}{20}$ in. By 1800, the average height had decreased by about $1\frac{1}{5}$ in. How tall was the average Austrian male in 1800? _____
6. How much taller was the average Austrian male in 1750 than the average Norwegian male in 1750? (Hint: Look in Exercises 4 and 5 for the information.) _____